

MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION

DISTRIBUTOR'S NAME: IMPERIAL SUPPLIES LLC
 DISTRIBUTOR'S ADDRESS: 789 PACKER DRIVE
 CITY/STATE/ZIP: GREEN BAY, WI. 54304
 INFORMATION NUMBER: 800-558-2808
 EMERGENCY NUMBER: 800-255-3924 (CHEM-TEL)

IMPERIAL PART NUMBER: 89403
 PRODUCT CLASSIFICATION: ALUMINUM WELDING FILLER ALLOY

SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

IMPORTANT: THIS SECTION COVERS THE MATERIALS OF WHICH THE PRODUCTS ARE MANUFACTURED. THE FUMES AND GASES PRODUCED DURING NORMAL USE OF THIS

PRODUCT IS COVERED IN SECTION V. THE TERM HAZARDOUS IN "HAZARDOUS MATERIAL" SHOULD NOT BE INTERPRETED AS A TERM REQUIRED AND DEFINED IN OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910-1200 AND IT DOES NOT NECESSARILY IMPLY THE EXISTENCE OF HAZARD. THE CHEMICALS REPORTABLE BY SECTION 313 OF SARA ARE MARKED BY THE SYMBOL #

INGREDIENTS CARCINOGENICITY	CAS #	% RANGE	OSHA PEL MG/M3	ACGIH-TLV MG/M3	

ALUMINUM#	7429-90-5	70-80	5 (AS FUME)	5 (AS FUME)	NO
SILICON	7440-21-3	1-11	10	10	NO
SLUMINUM FLUORIDE (ALUMINUM FUME) #	7784-18-1	1-11	2.5 (AS F) 5 (AL FUME) #	2.5 (AS F) 5 (AL FUME) #	NO NO
LITHIUM FLUORIDE	7789-24-4	1-11	2.5 (AS F)	2.5 (AS F)	NO
MAGNESIUM FLUORIDE	7783-40-6	1-11	2.5 (AS F)	2.5 (AS F)	NO
POTASSIUM CHLORIDE	7447-40-7	1-11	NOT REGSTRD	NOT REGSTRD	NO
POTASSIUM FLUORIDE	7789-23-3	2-12	2.5 (AS F)	2.5 (AS F)	NO
SODIUM CHLORIDE	7647-14-5	1-11	NOT REGSTRD	NOT REGSTRD	NO

SECTION III. PHYSICAL DATA

NOT APPLICABLE

****SECTION IV. REACTIVITY DATA****

WELDING FUMES CANNOT BE CLASSIFIED SIMPLY. THE COMPOSITION AND QUANTITY OF BOTH ARE DEPENDENT UPON THE METAL BEING WELDED (SUCH AS PAINT, PLATING OR GALVANIZATION), NUMBER OF WELDS AND VOLUME OF WORK AREA, QUALITY AND AMOUNT OF VENTILATION, POSITION OF WELDER'S HEAD WITH RESPECT OT FUME PLUME, AS WELL AS THE PRESENCE OF CONTAMINANTS IN THE ATMOSPHERE (SUCH AS CHLORINATED HYDROCARBON VAPORS FROM CLEANING AND DEGREASING ACTIVITIES).

WHEN THE ELECTRODE IS CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS ARE DIFFERENT IN PERCENT AND FORM FROM THE INGREDIENTS LISTED IN SECTION II. FUME AND GAS DECOMPOSITION, NOT THE INGREDIENTS IN THE ELECTRODE, ARE IMPORTANT. DECOMPOSITION OF PRODUCTS INCLUDE THOSE ORIGINATING FROM THE VOLATILIZATION, REACTION, OR OXIDATION OF THE MATERIALS SHOWN IN SECTION II PLUS THOSE FROM THE BASE METAL, COATING, ETC. AS NOTED ABOVE.

THESE COMPONENTS ARE VIRTUALLY ALWAYS AS PRESENT S COMPLEX COMPOUNDS AND NOT AS METALS (CHARACTERIZATION OF ARC WELDING FUME: AMERICAN WELDING SOCIETY).

REASONABLE EXPECTED FUME CONSTITUENTS WOULD INCLUDE FLUORIDES, CHLORIDES AND COMPLEX OXIDES OF ALUMINUM AND SILICON. GASEOUS REACTION PRODUCTS MAY INCLUDE CARBON MONOXIDE AND CARBON DIOXIDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY THE RADIATION FROM THE ARC IN WELDING.

ONE RECOMMENDED WAY TO DETERMINE THE COMPOSITION AND QUANTITY OF FUMES AND GASES

TO WHICH WORKERS ARE EXPOSED IS TO TAKE AN AIR SAMPLE INSIDE THE WELDER'S HELMET, IF WORN, OR IN THE BREATHING ZONE. ANSI/AWSF.1 AVAILABLE FROM AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI FL, 33135.

SECTION VI. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: THE ACGIH RECOMMENDED GENERAL LIMIT FOR WELDING FUME NOC (NOT OTHERWISE CLASSIFIED) IS 5 MG/M3. THE ACGIH 1984-85 PREFACES STATES "THE TLV-TWA SHOULD BE USED AS GUIDES IN THE CONTROL OF HEALTH HAZARDS AND

SHOULD

NOT BE USED AS FIRM LINES BETWEEN SAFE AND DANGEROUS CONCENTRATIONS." SEE SECTION V FOR SPECIFIC FUME CONSTITUENTS WHICH MAY MODIFY THIS TLV.

EFFECTS OF OVEREXPOSURE: FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. PRIMARY ROUTE OF EXPOSURE IS INHALATION OF FUMES. PRE-EXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY BE AGGRAVATED IN SOME INDIVIDUALS. SHORT-TERM (ACUTE OVEREXPOSURE) TO WELDING FUMES MAY RESULT IN SOME DISCOMFORT SUCH AS; DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF NOSE, THROAT, OR EYES. LONG-TERM (CHRONIC OVEREXPOSURE) MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNGS) AND IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTION. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. SEE SECTION VII.

EMERGENCY AND FIRST AID PROCEDURES:

CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.

SECTION VII. PRECAUTION FOR SAFE HANDLING AND USE /APPLICABLE CONTROL MEASURES

READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THIS PRODUCT. SEE AMERICAN NATIONAL STANDARD Z-49.1, SAFETY IN WELDING AND CUTTING, PUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI FL, 33135 AND OSHA PUBLICATIONS 2206 (29CFR1910), US GOVERNMENT PRINTING OFFICE, WASHINGTON D.C. 20402 FOR MORE DETAILS ON THE FOLLOWING.

VENTILATION:

USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH TO KEEP THE FUMES AND GASES BELOW TLV'S IN THE WORKER'S BREATHING ZONE AND THE GENREAL AREA. TRAIN THE WELDER TO KEEP HIS HEAD OUT OF THE FUMES.

RESPIRATORY PROTECTION: USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIES
RESPIRATOR WHEN WELDING IN CONFINED SPACES, OR WHERE
LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURES
BELOW TLV.

EYE PROTECTION: WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS. AS A
RULE OF THUMB, STATE WITH A SHADE DARKER TO SEE THE
WELD

ZONE. THEN GO TO THE NEXT LIGHTER SHADE WHICH GIVES
SUFFICIENT VIEW OF THE WELD ZONE. PROVIDE SCREENS AND
FLASH GOGGLES TO SHIELD OTHERS.

PROTECTIVE CLOTHING: WEAR HEAD, HAND AND BODY PROTECTION WHICH HELP TO
PREVENT INJURY FROM RADIATION, SPARKS, AND ELECTRICAL
SHOCK. SEE ANSI Z-49.1 AT THE MINIMUM, THIS INCLUDES
WELDERS GLOVES AND A PROTECTIVE FACE SHIELD AND MAY
INCLUDE ARM PROTECTORS, APRONS, HATS, SHOULDER
PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING. TRAIN
THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO
INSULATE HIMSELF FROM WORK/AND GROUND.

WASTE: DISPOSE OF ANY GRINDING DUST OR WASTE RESIDUE IN
ACCORDANCE WITH EPA OR LOCAL REGULATIONS.

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